



Specifications

For Aurora Scientific Model: 901D

Model #	901D
Software Specifications	
Operating System	Linux
Image Functions	Brightness, Contrast, Region of Interest (ROI), Offset, Zoom
ROI Display	Width vs Height (readout in pixels or microns)
Display Rotation	Rotate Display to Align Software Image with Microscope Image
Camera ROI Function	Window camera for increased frame rates (see Frame Rate below)
Calibration	Field of View (FOV) or Calibration Length
SL Calculation Algorithm	Autocorrelation Function/Sine-Fit, Fast Fourier Transform/Curve Fit
Tissue Length Calculation Algorithm	Image analysis measures distance between probes
Scope Function	Real-time scrolling display of SL and Tissue Length
Record Function	Stores SL, Tissue Length, Images or All to disk at current frame rate
Playback Function	Playback stored image files, calculate SL, create AVI movies
Analysis	Plots Sarcomere Length and Velocity vs Time
Camera Specifications	
Type	CMOS Mono
Resolution [pixels]	1280 x 1024
Pixel Size [µm]	4.8 x 4.8
Optical Format [in]	1/3
Frame Rate [frames/sec]	(1280 x 1024): 310 (1280 x 8): 3,000
Lens Mount	C-Mount, ½" Format
Data Output Transfer	USB 3.0
Power Required	USB Connection
Power Consumption [W]	1.3 – 2.0
Weight [g]	52
Dimensions [mm]	29L x 29W x 29H